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Review Test Submission: Quiz 4.4

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Course	Intro to Control Systems - Fall 2020 Section Group I67
Test	Quiz 4.4
Started	9/15/20 9:35 AM
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Status	Completed
Attempt Score	4 out of 4 points
Time Elapsed	1 minute
Results Displaye	d Submitted Answers, Incorrectly Answered Questions

Question 1

1 out of 1 points



Which of the following statement(s) show the state transition matrix?

Selected Answers: e^{At}

$$(sI - A)^{-1}$$

Question 2

1 out of 1 points



True or false? The state transition matrix appears in the equation describing the output response.

Selected Answer: True

Question 3

1 out of 1 points



Which of the following statement(s) correctly describe the relationship between the state response, the forced response, and the natural response?

Selected Answer:

The state response is the sum of the forced response and the natural response.

Question 4

1 out of 1 points



True or false?

The Laplace transform of the state transition matrix is $\mathcal{L}\{e^{At}\} = (sI - A)^{-1}$.

Selected Answer: True

Wednesday, September 30, 2020 11:08:08 AM MDT